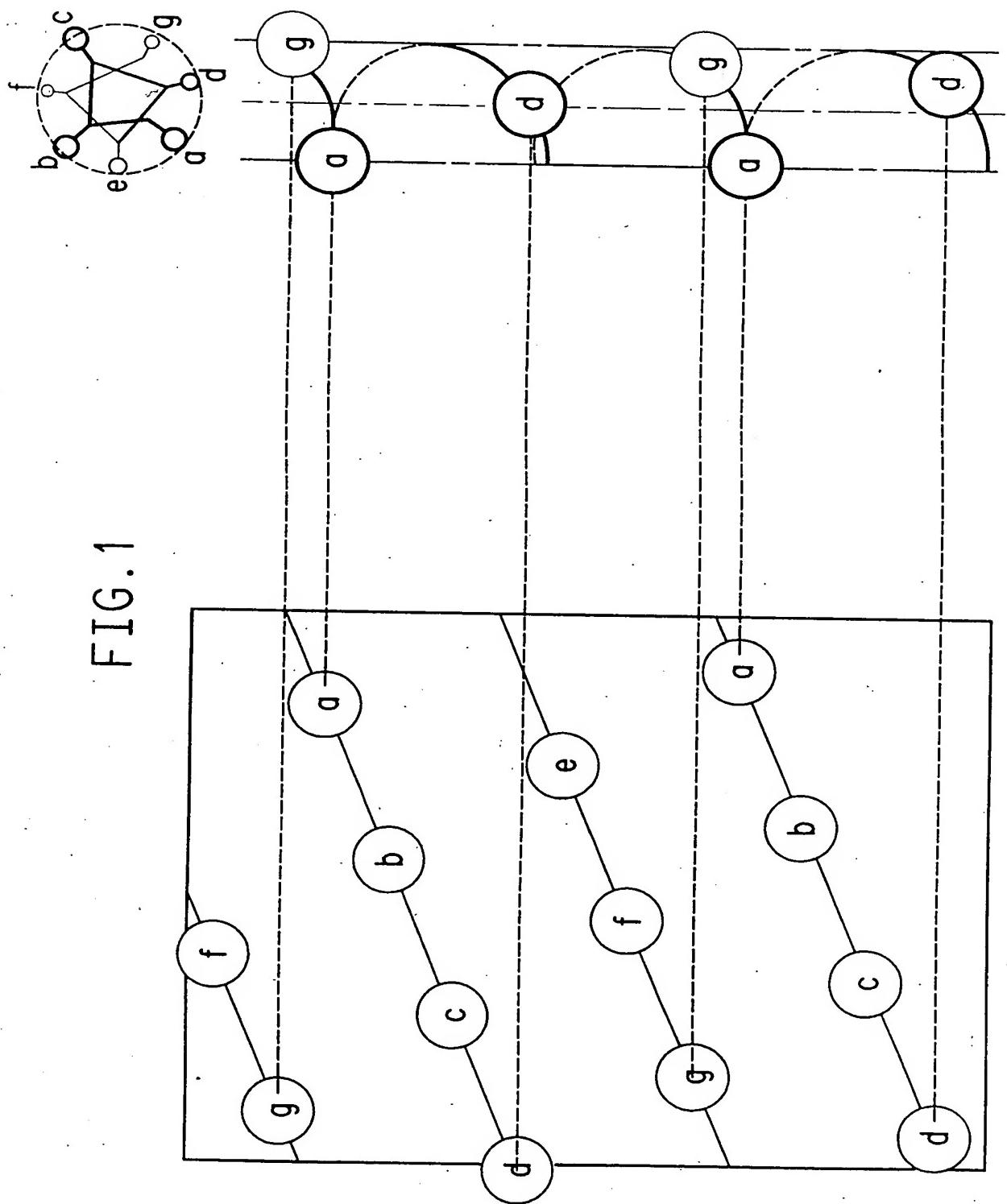


FIG. 1



2/25

FIG. 2A

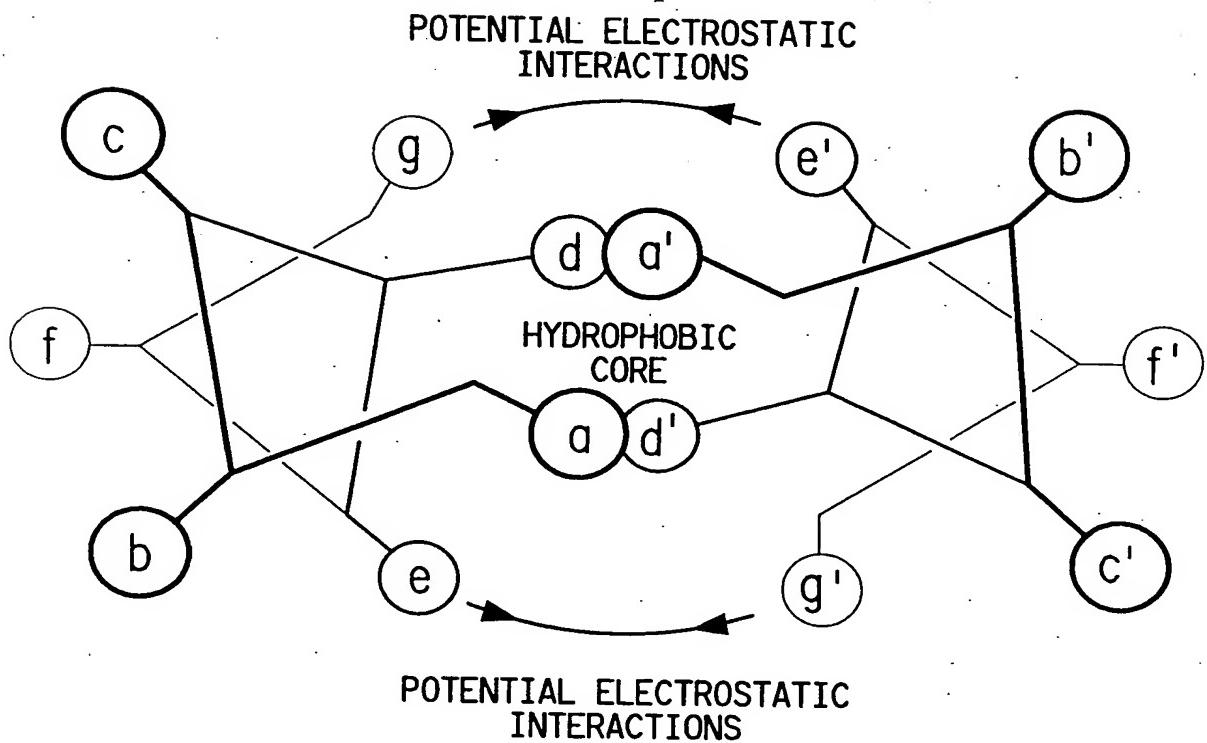


FIG. 2B

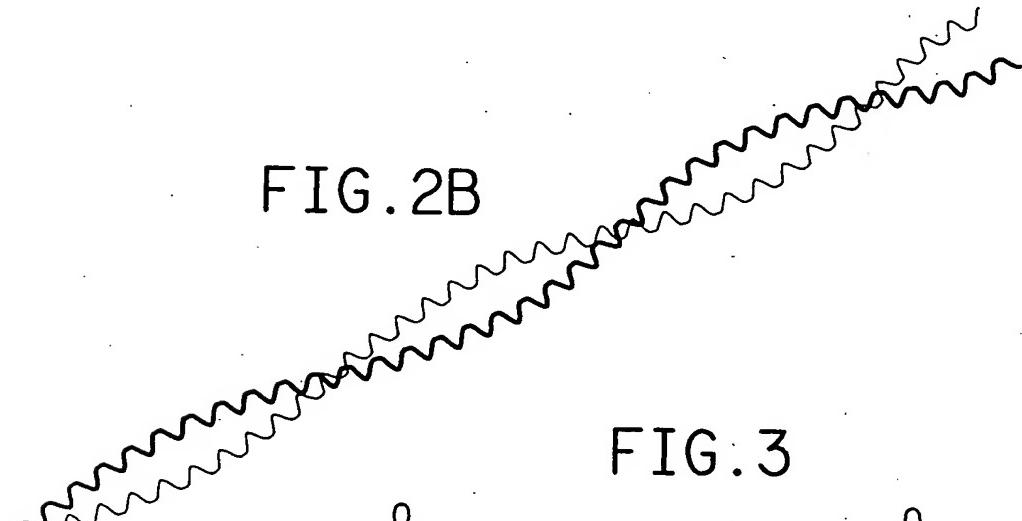
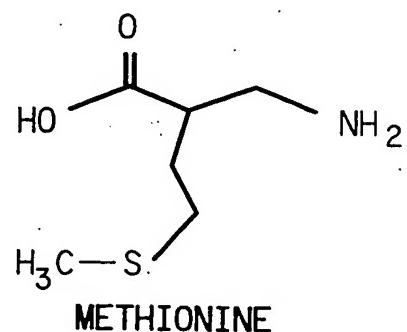
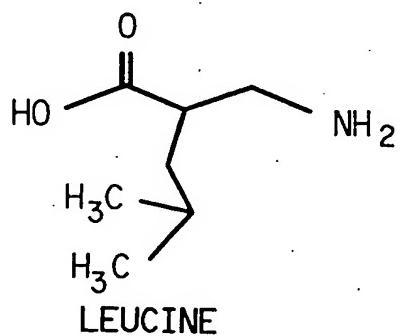


FIG. 3



3/25

FIG. 4a

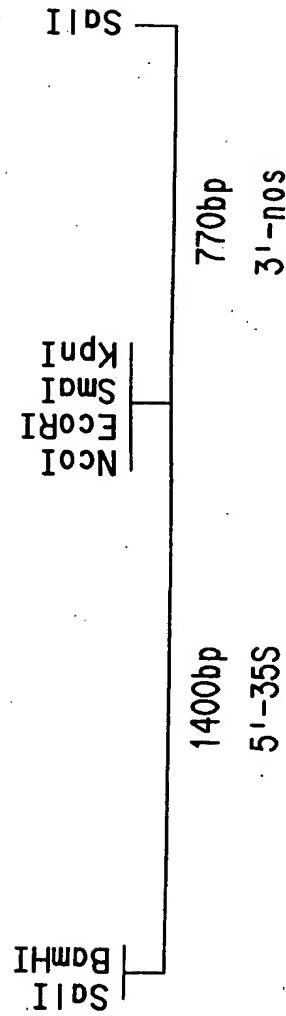
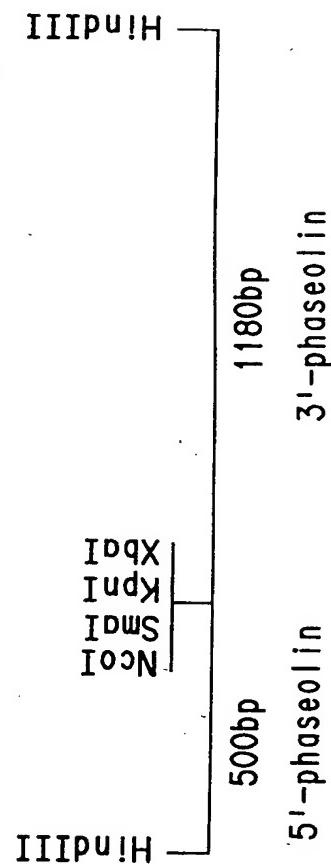
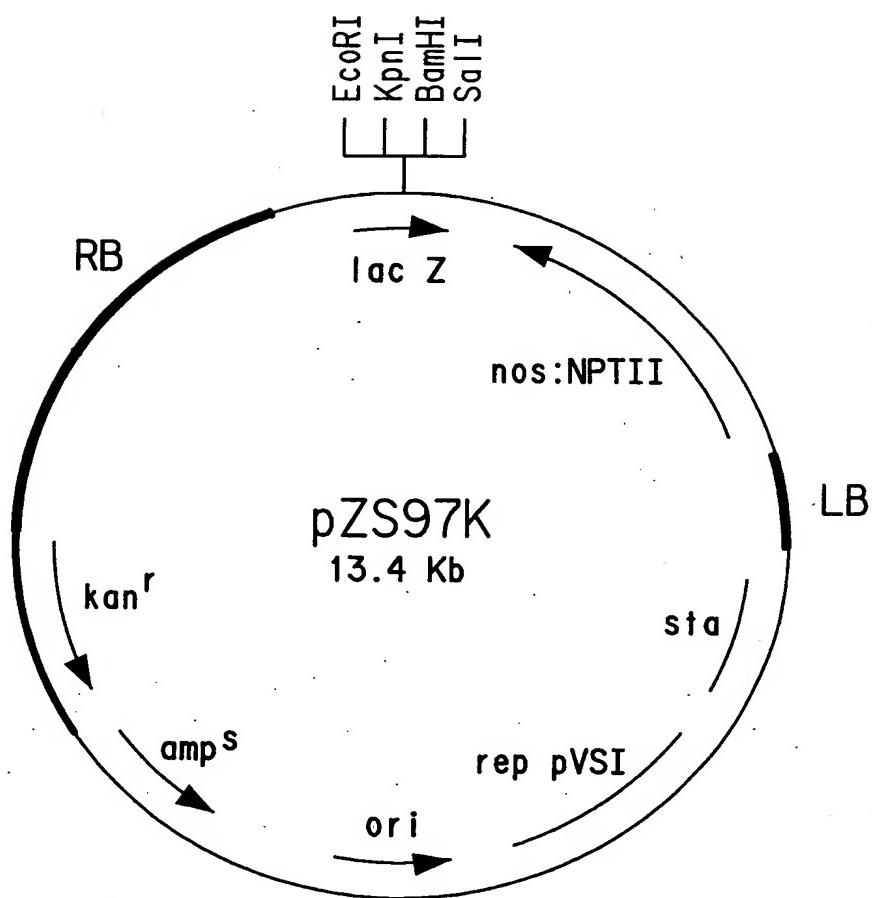


FIG. 4b



4/25

FIG.5



5/25

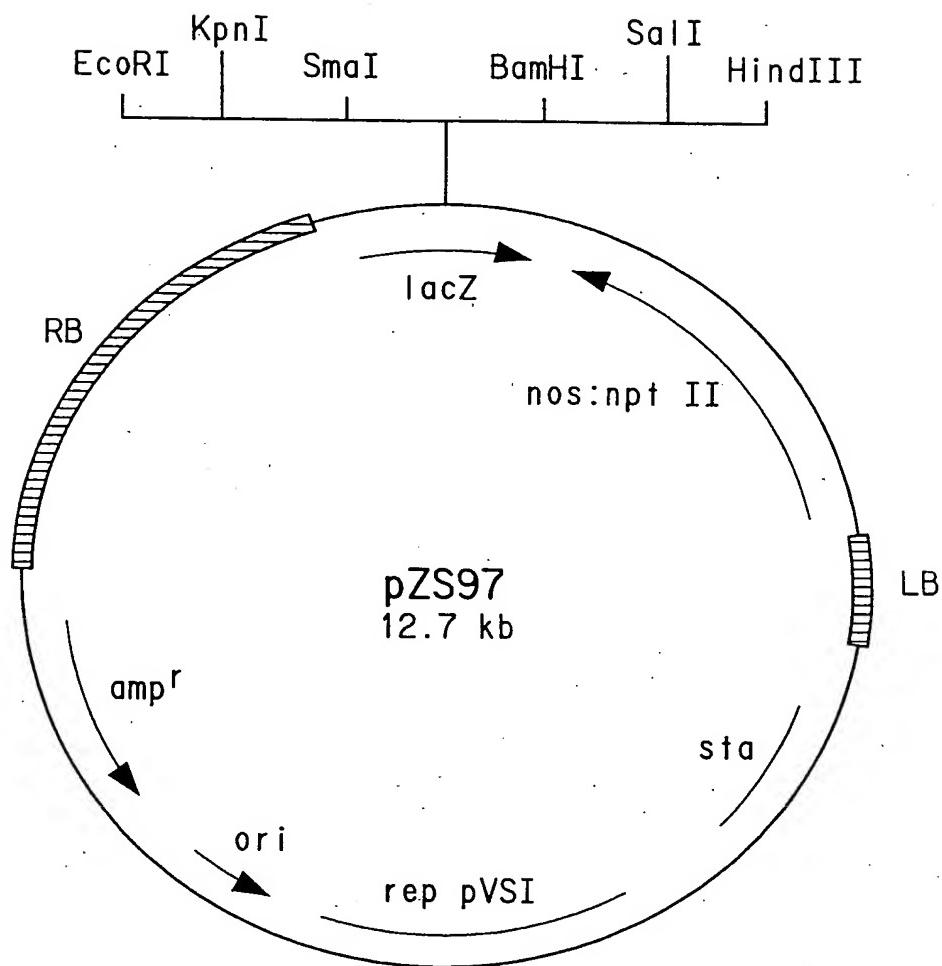


FIG. 6

6/25

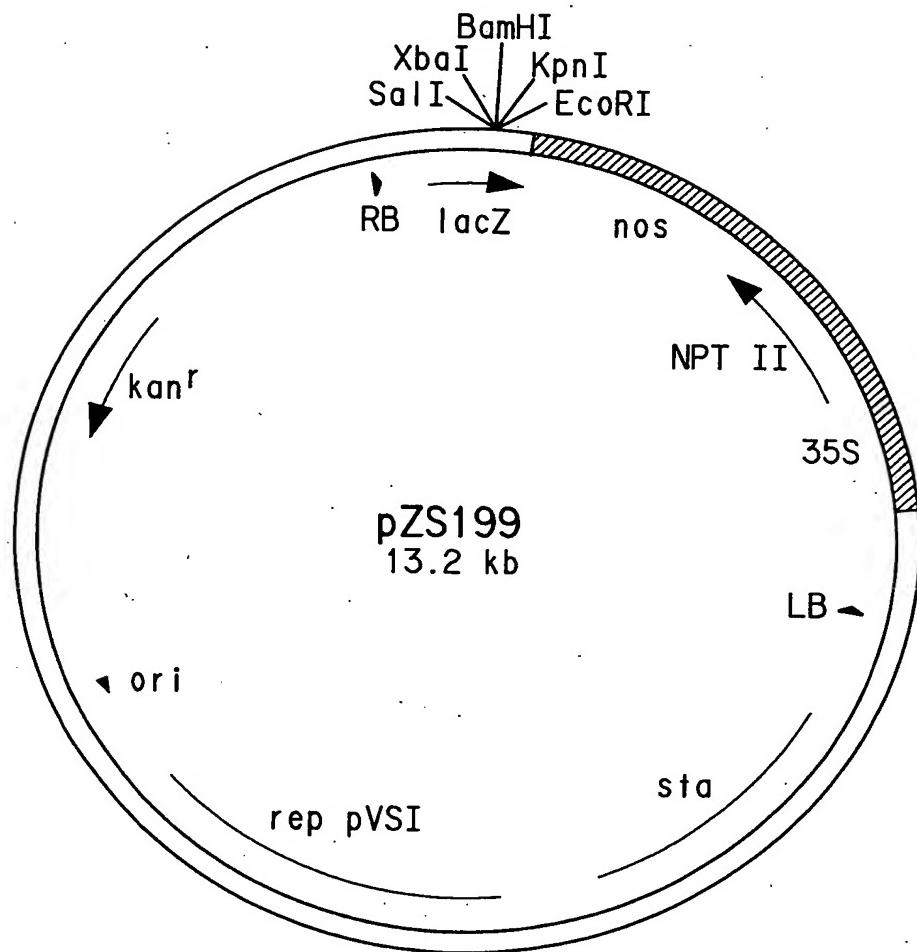


FIG. 7A

7/25

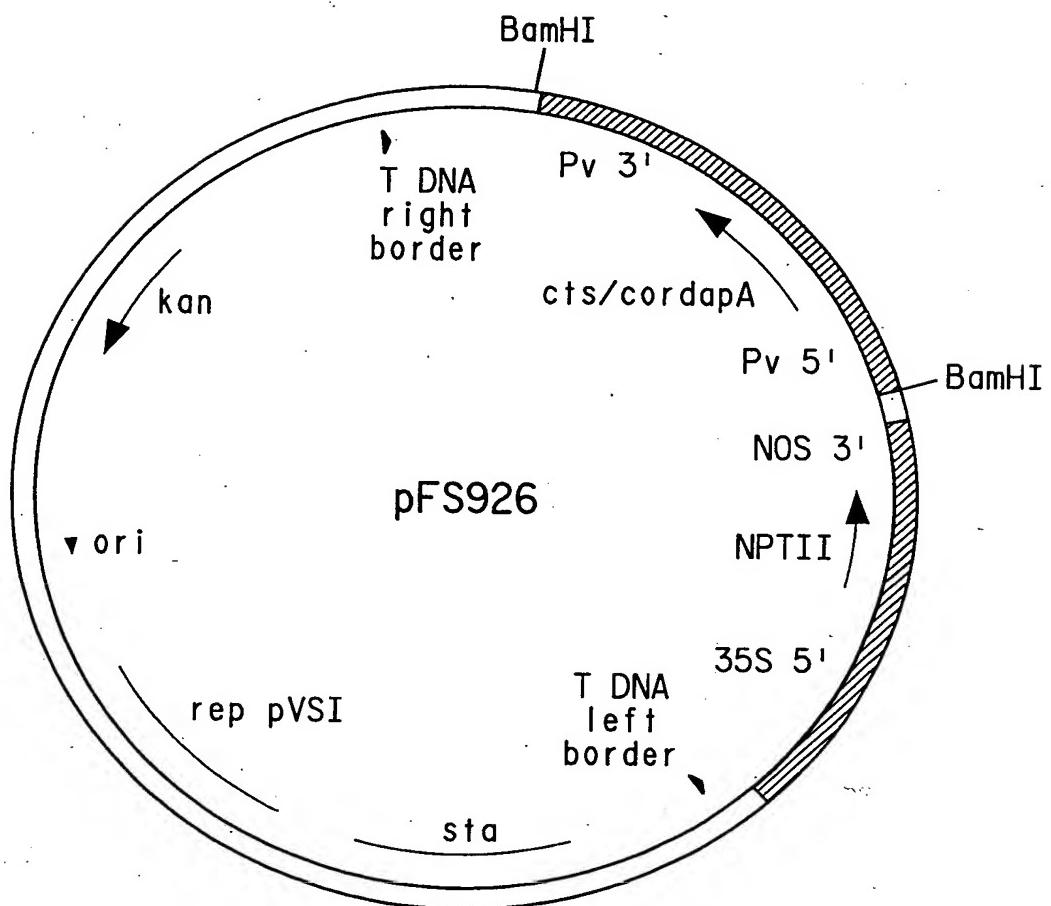


FIG. 7B

8/25

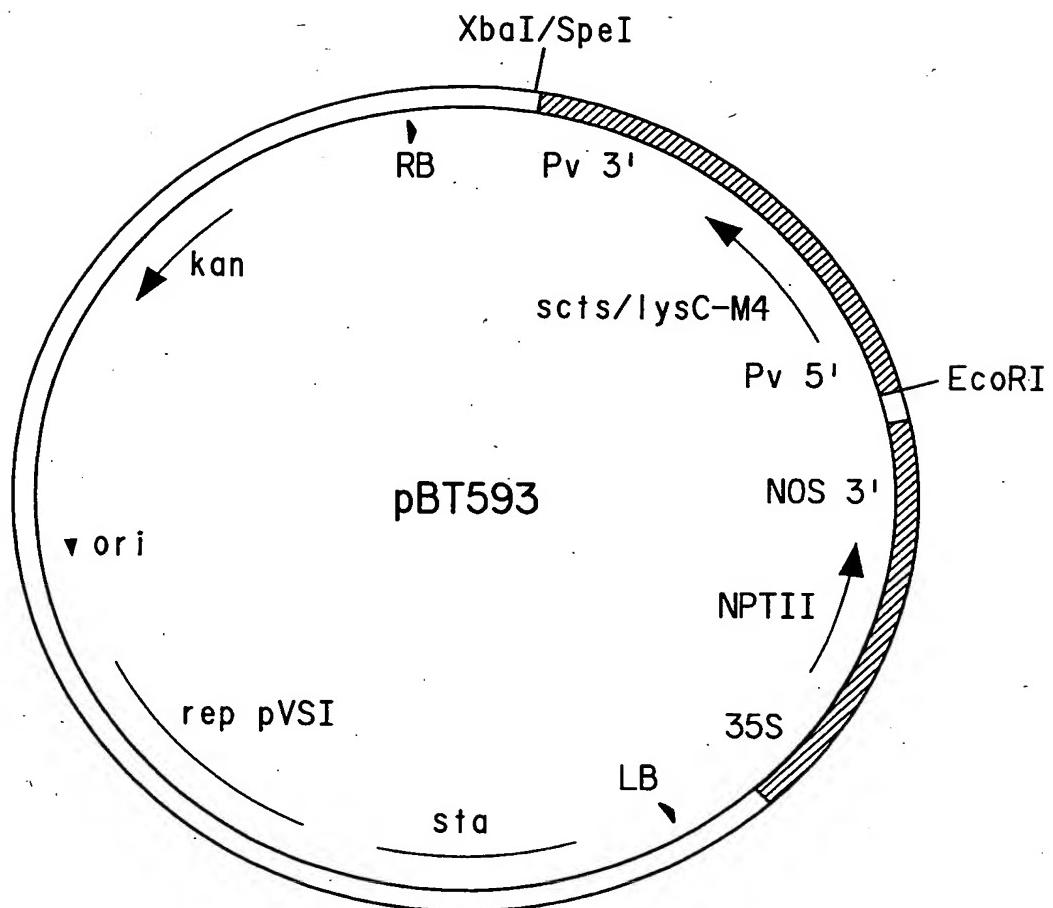


FIG. 7C

9/25

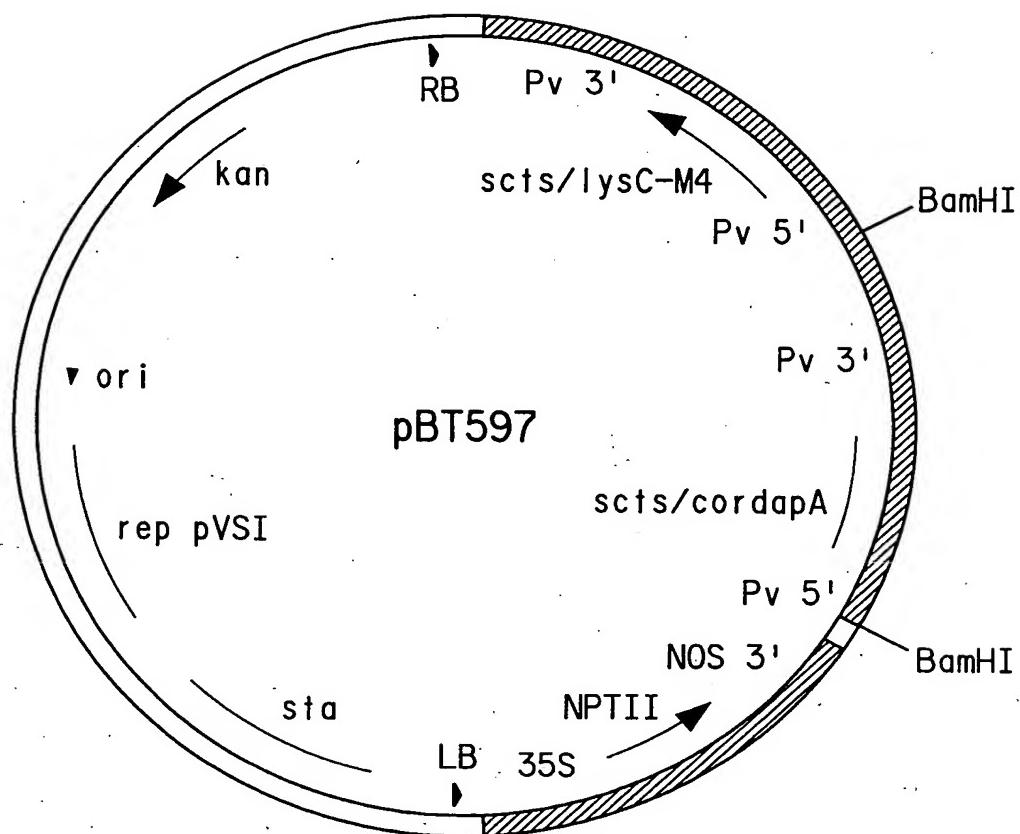


FIG. 7D

10/25

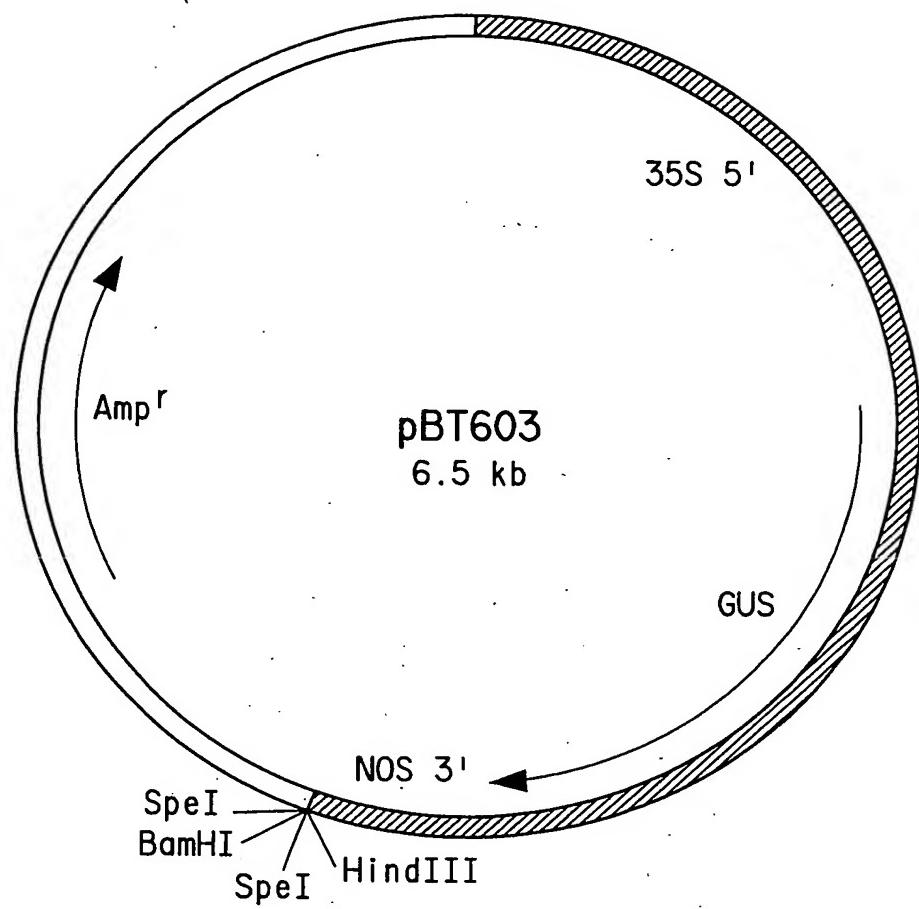


FIG. 8A

11/25

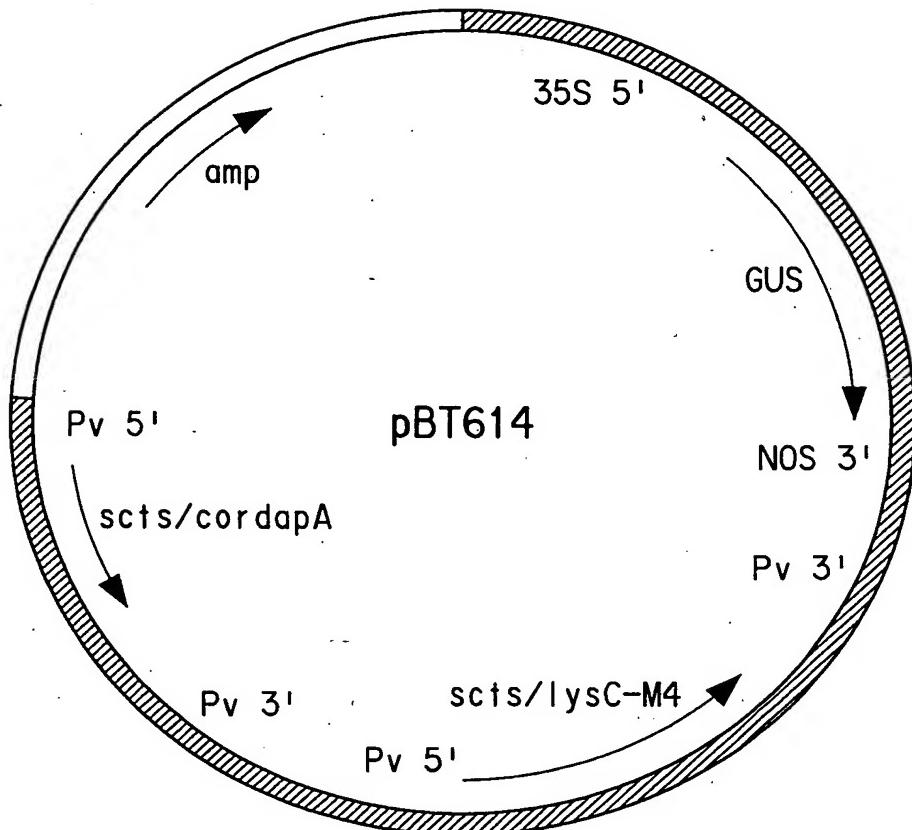


FIG. 8B

FIG. 9

Title: Chimeric Genes and Methods for Increasing the Lysine Content of the Seeds of Plants  
Applicant: S. C. Falco et al.  
Docket No.: RR1037 US CNT

12/25

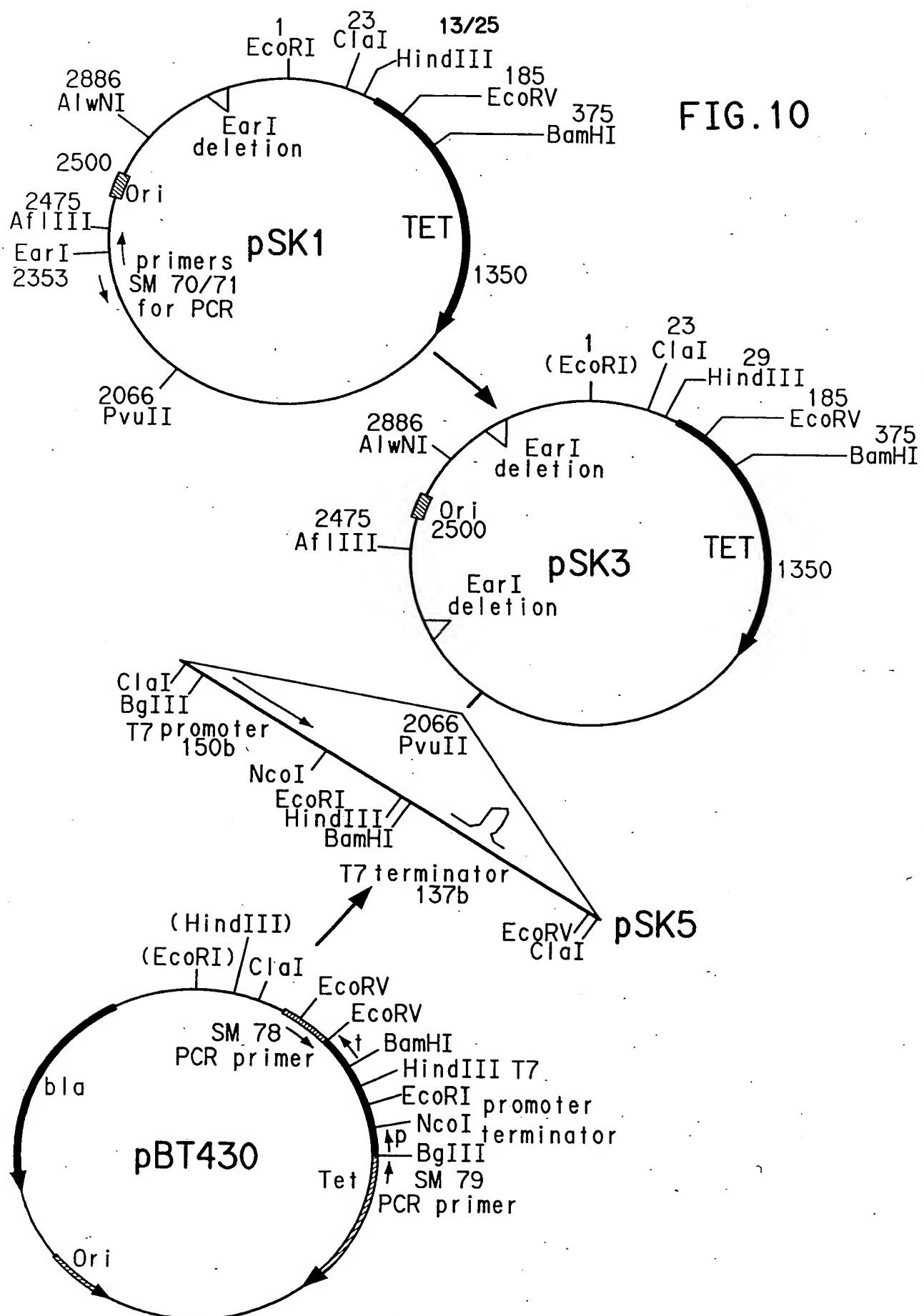


FIG. 1

Title: Chimeric Genes and Methods for Increasing  
the Lysine Content of the Seeds of Plants  
Applicant: S. C. Falco et al.  
Docket No.: BB1037 US CNT

14/25

```

graph TD
    NCOI1[NCOI] --> EARI1[EARI]
    EARI1 --> Oligo1[CATG GAGGAGAAGATGAAGGC]
    Oligo1 --> Oligo2[CT CCTCTTCACT TCCGCTA CCTTCTC]
    Oligo2 --> Oligo3[CCTCCTTCTACTTCCGCTA]
    Oligo3 --> Oligo4[M E E K M K A]
    Oligo4 --> Ligate1[LIGATE OLIGOS]
    Ligate1 --> Vector[↓ LIGATE TO EARI CUT VECTOR]
    Vector --> NCOI2[NCOI]
  
```

**ASP718ECORI**

**EARI**

**NCOI**

**ASP718ECORI**

**EARI**

**NCOI**

15/25

FIG.12

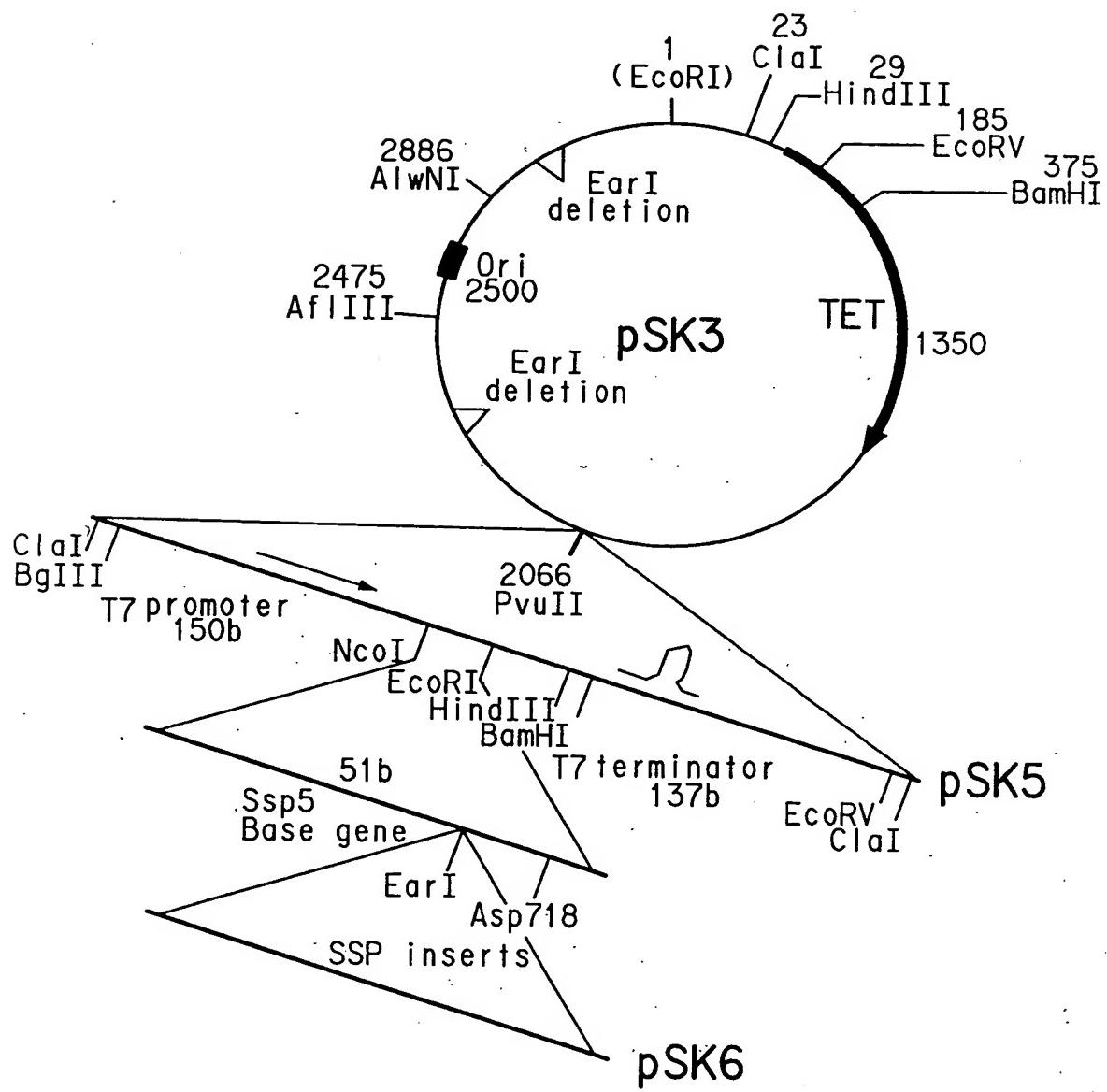


FIG. 13

NCOI	CATGGAGGAGAAGATGAAAAA	CTCCTCTTCACTTTCTA	↓	GCTC <del>GAAGAG</del> <ins>GAAGAT</ins> GAAGG <del>T</del> <ins>CATGAA</ins> <del>G</del> <ins>GAT</ins> AGGTACCG	GCTTCTCTACTTCCAGTACTTCACTATCCATGGCTAA	↑	M E E K M K K L E E K M K V M K			
				EARI	BSPHI	STOP	ASP718	ECORI	BASE	GENE

## OLIGONUCLEOTIDE INSERTS

GCTGGAAAGAAAGATGAAGGCTATGGAGGAGAAGATGAAATGGCTTGAGGAAAAGATGAAGAA  
CCTTCTTTCTACTCCGATACCTCCTGTACTTACCGAACTCTTTACTCTTACTCTTCGAA  
L E E K M K A M E E K M K W L E E K M K K

OLIGOS LIGATED INTO EARL CUT BASE GENE

NCOI

**EARI**      BSPHI      ASP718      ECORI  
CGAAGAG[AAGATGAAGG][CATGAAG[GATAGGTACGG  
GCTTCTCTTACTCCAGTACTTCACTATCCATGGCTTAA      CLONE pSK34  
E E K M K V M K

17/25

FIG. 14a

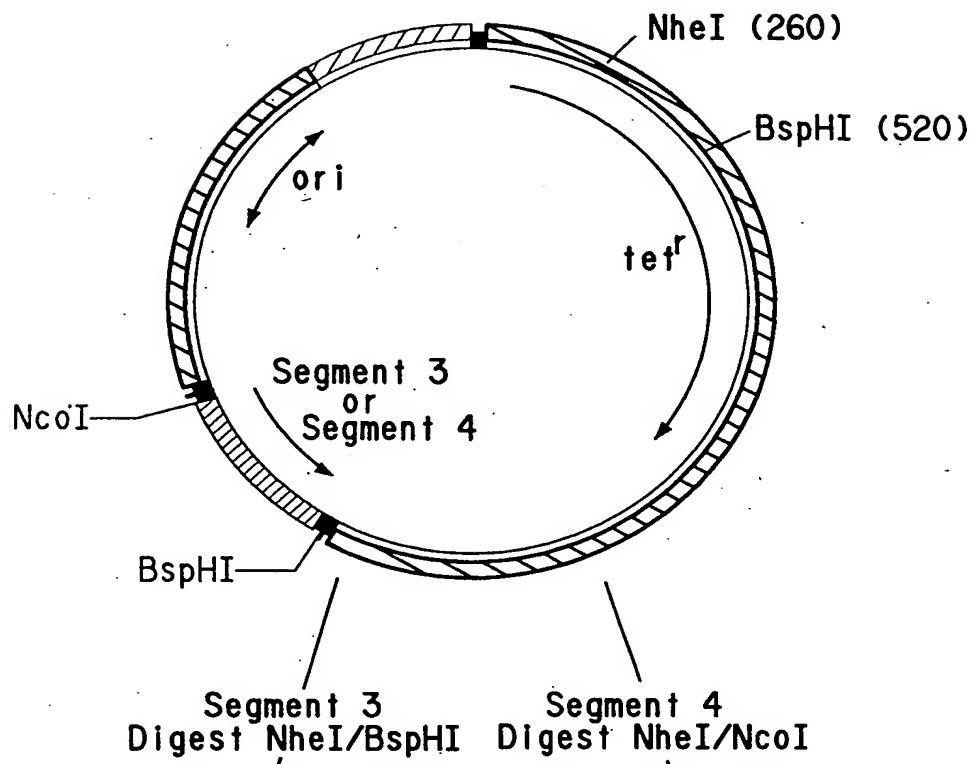
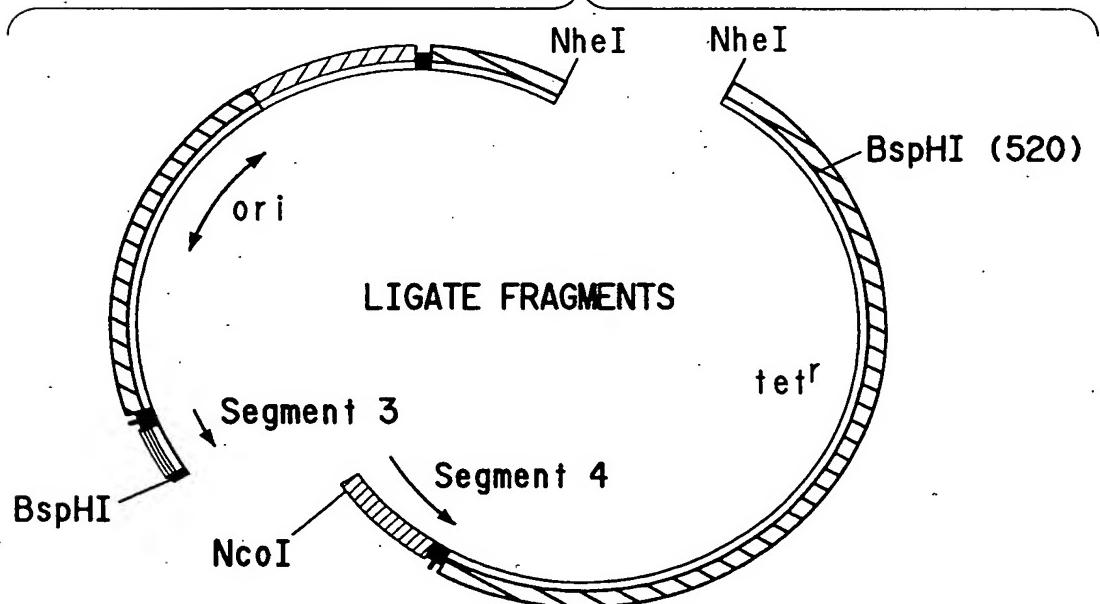
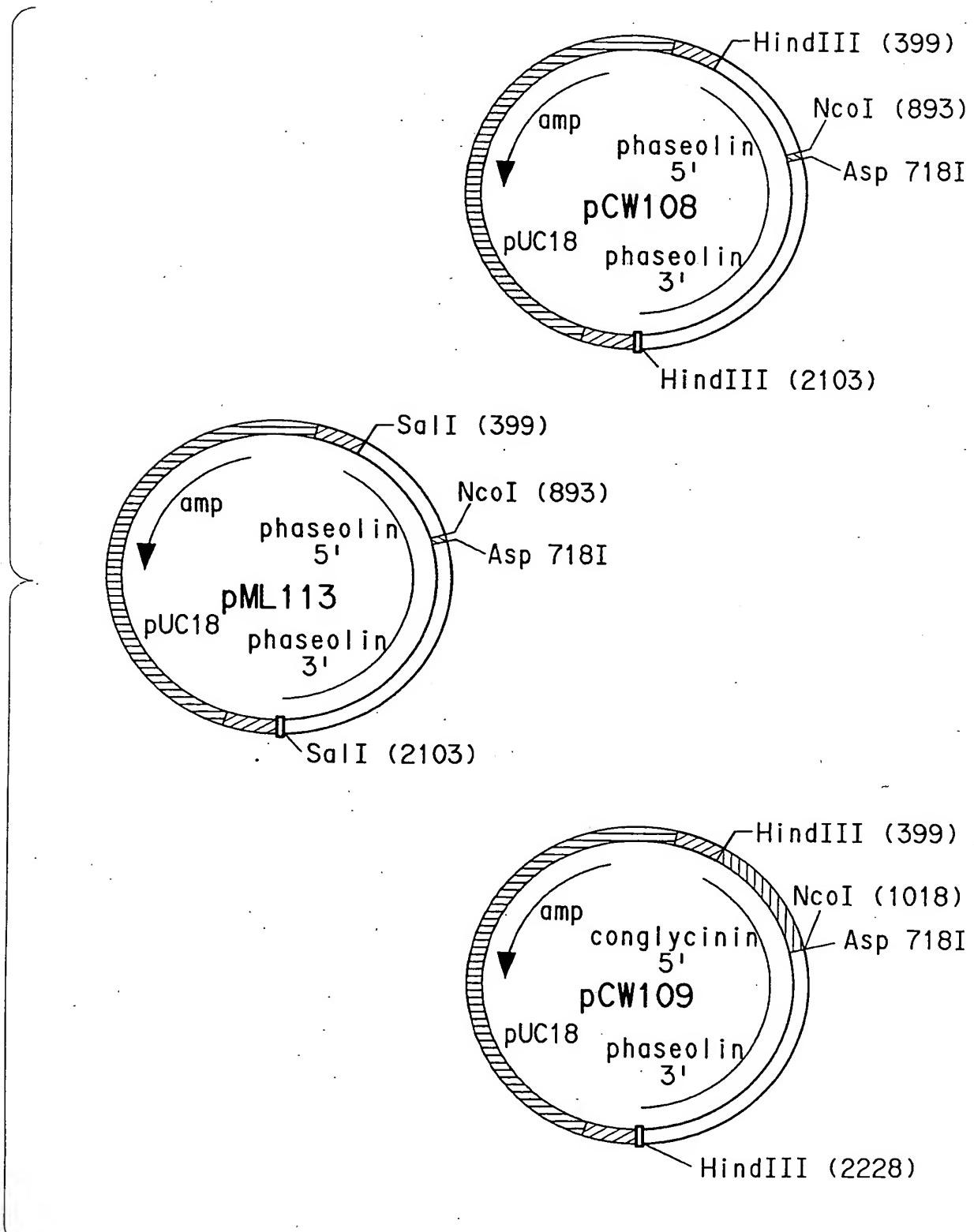


FIG. 14b



18/25

FIG. 15



19/25

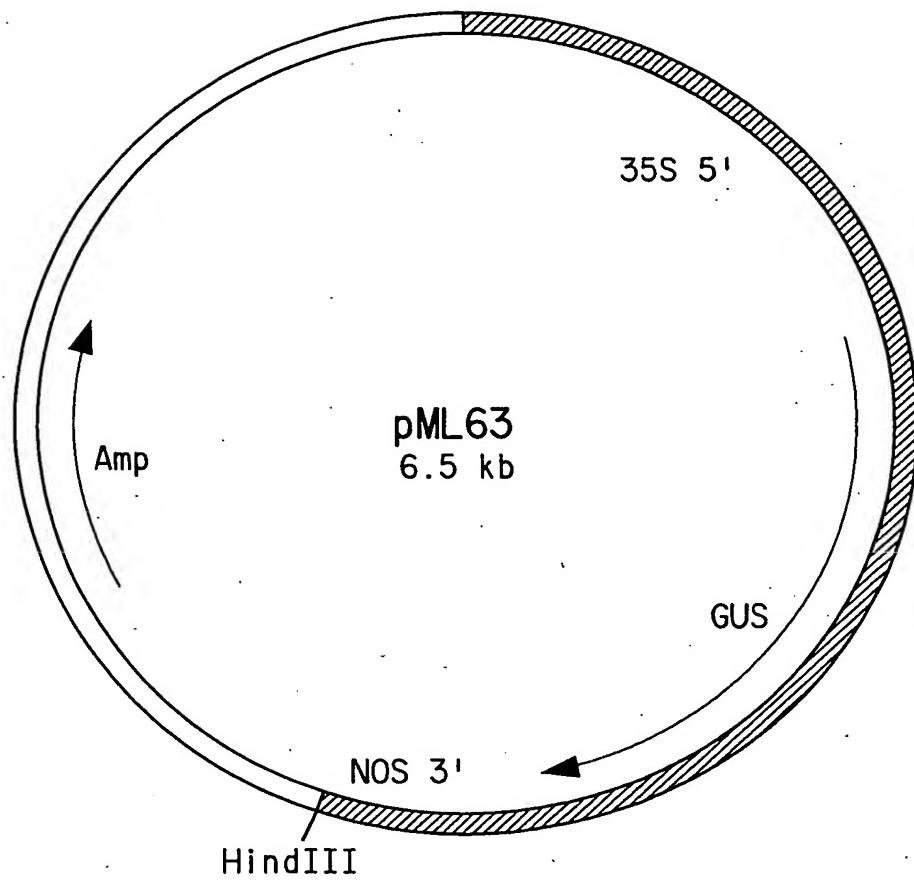


FIG. 16

20/25

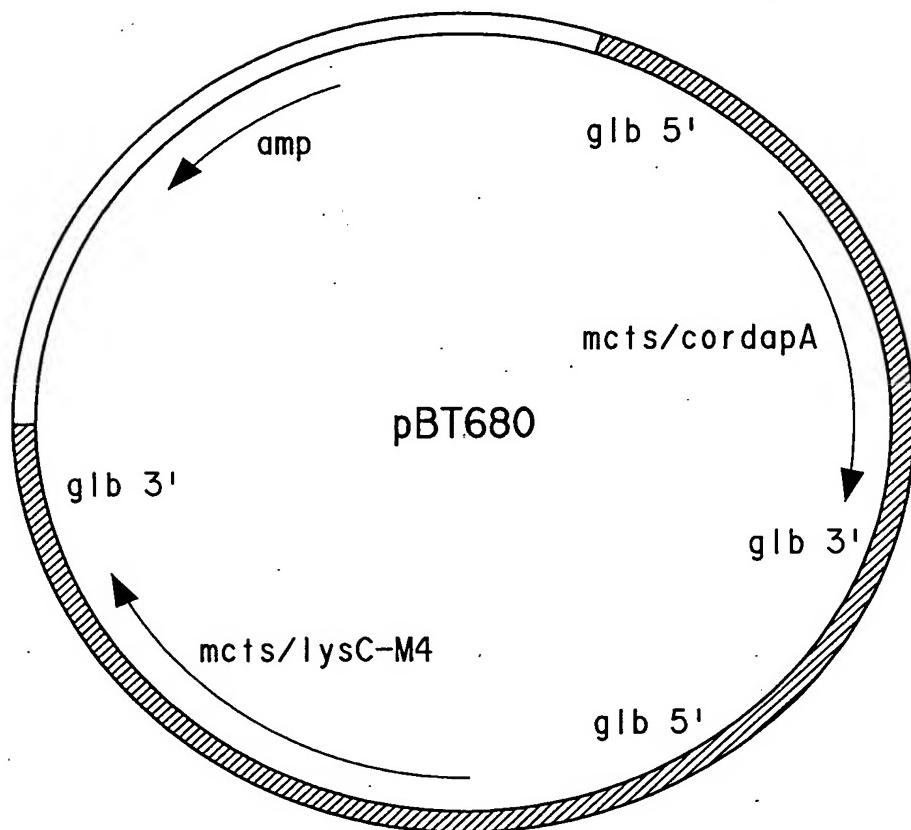


FIG.17

21/25

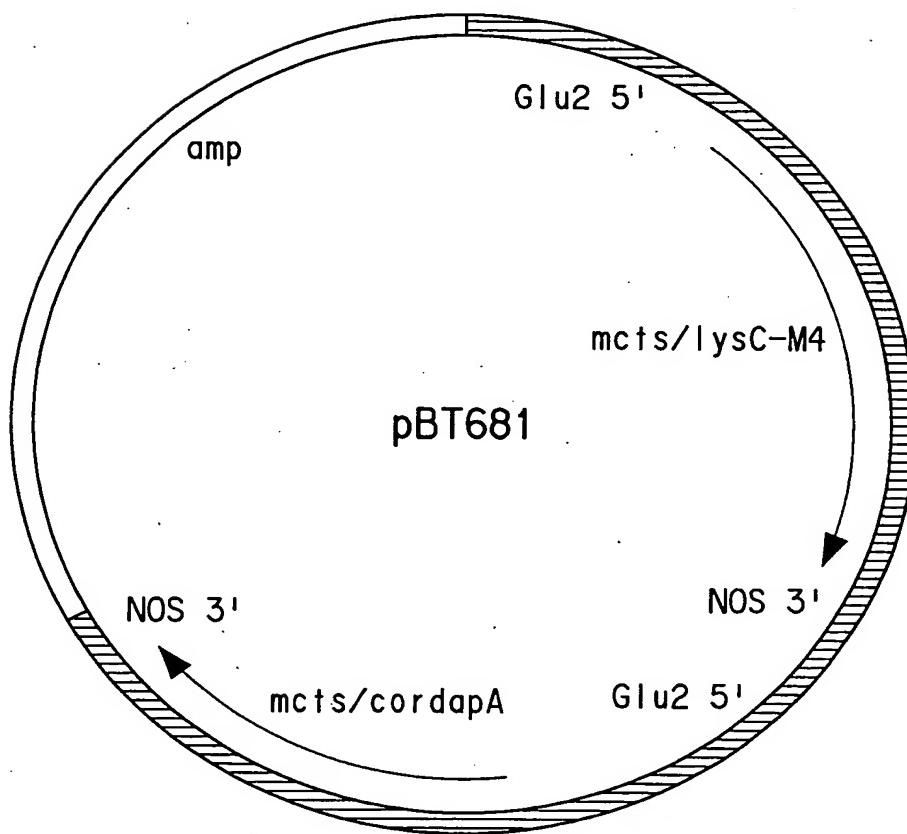


FIG. 18

22/25

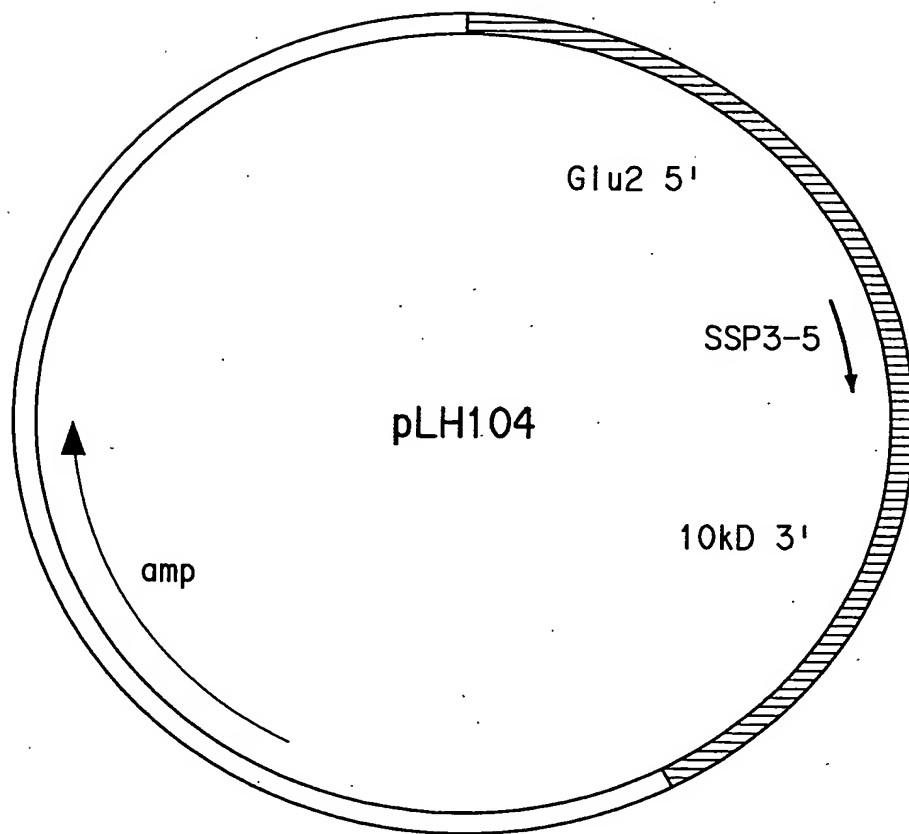


FIG.19

23/25

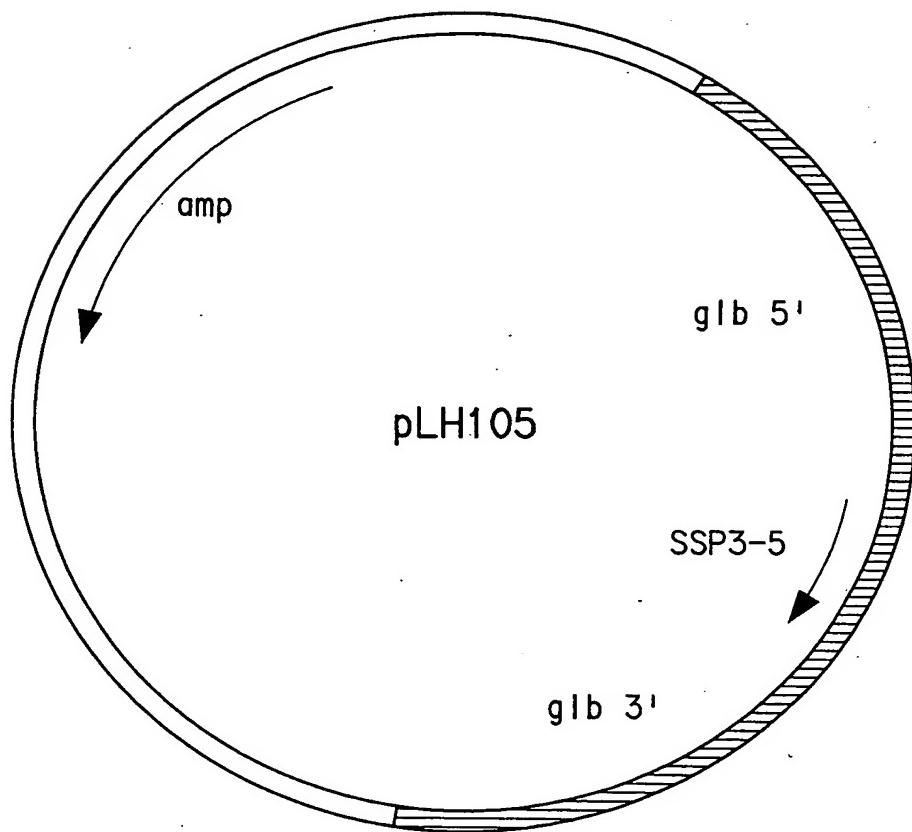


FIG.20

24/25

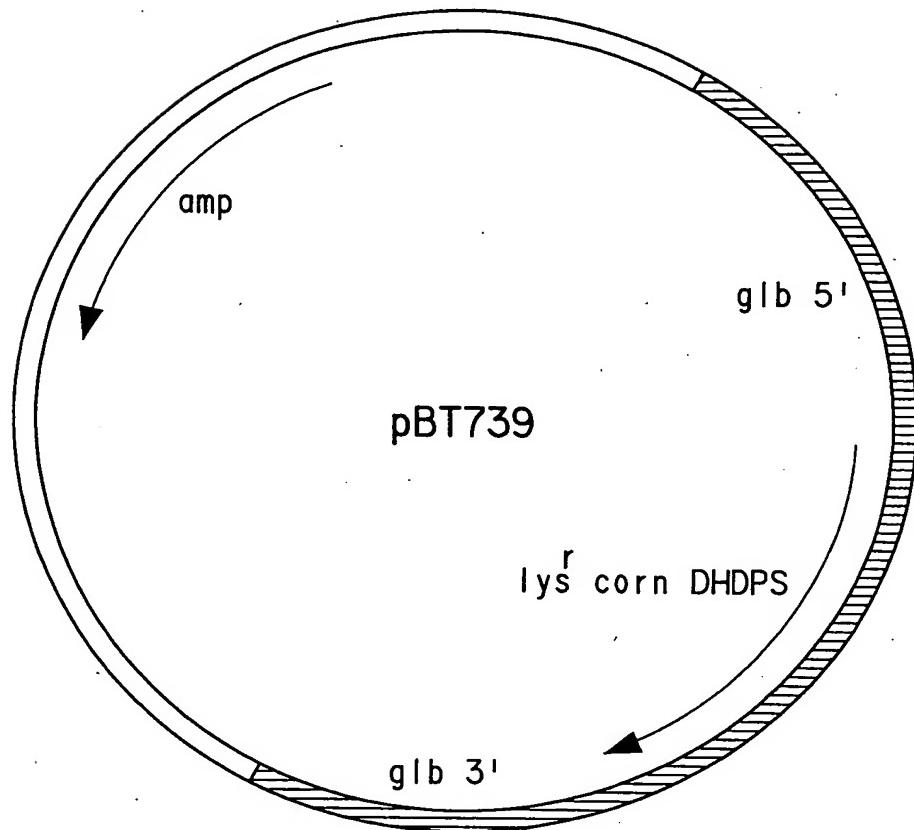


FIG.21

25/25

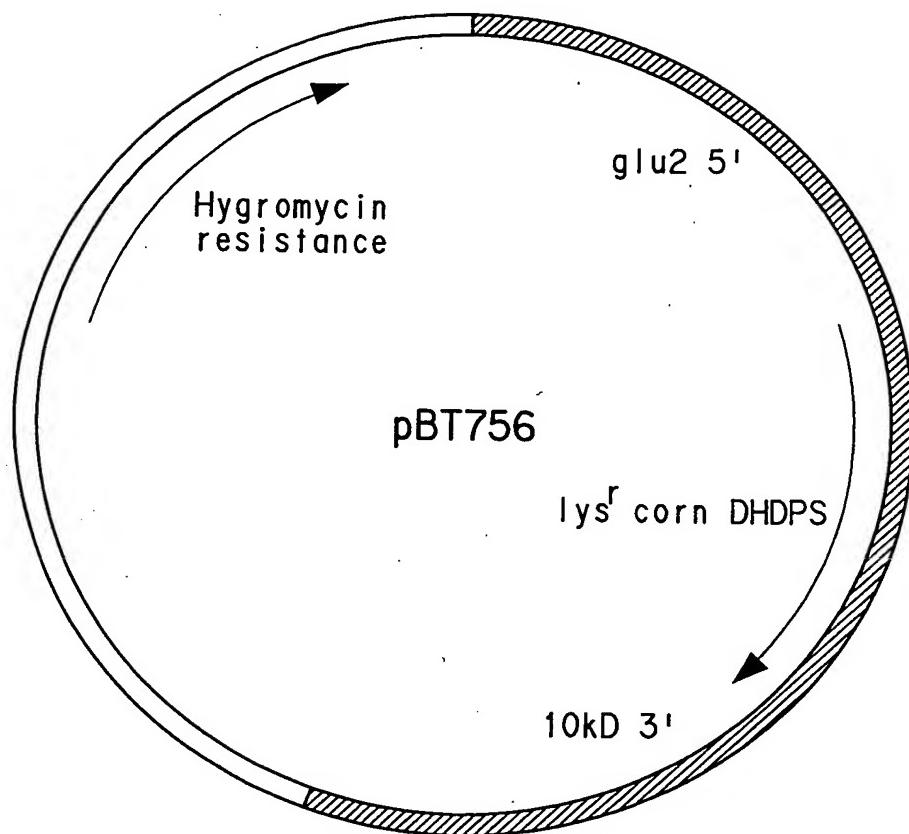


FIG.22